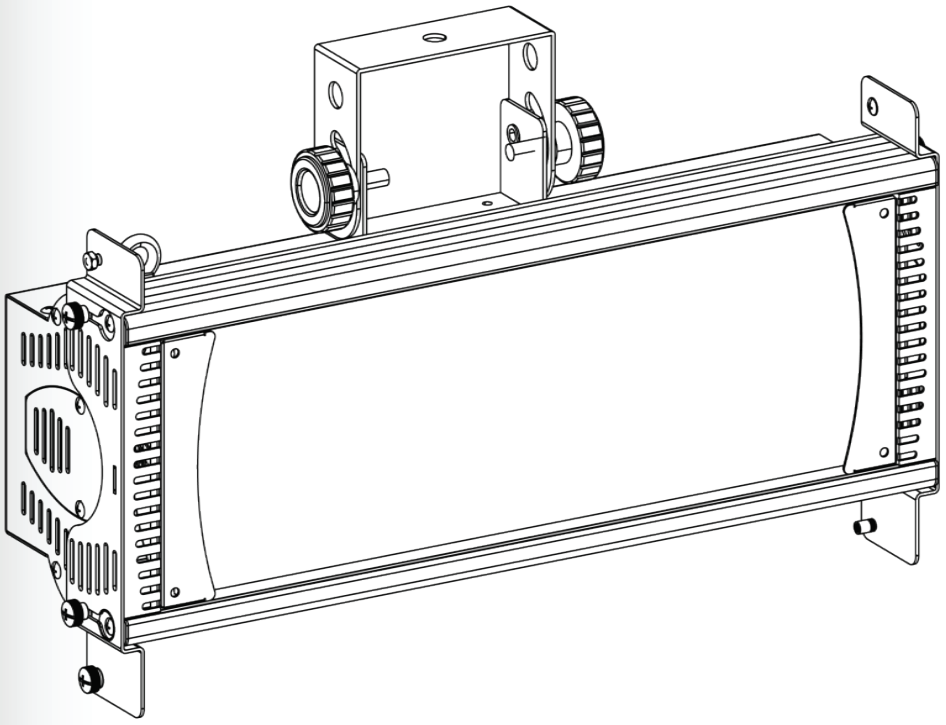
XENO™ 2500

User Manual



CHAUVET® PROFESSIONAL

Edition Notes

The Xeno™ 2500 User Manual Rev. 1 covers the description, safety precautions, installation, programming, operation, and maintenance of the Xeno™ 2500. CHAUVET® released this edition of the Xeno™ 2500 User Manual in February 2013.

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Document Revision

The Xeno™ 2500 User Manual, Rev. 1, supersedes all previous versions of this manual. Discard any older versions and replace with this version.

Author	Date	Editor	Date
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Notes

1. Before You Begin

What Is Included

- Xeno™ 2500
- Power Input Cord
- Scroller Bracket with Hardware
- Warranty Card
- Quick Reference Guide

Claims

Carefully unpack the product immediately and check the box to make sure all the parts are in the package and are in good condition.

If the box or the contents (the product and included accessories) appear damaged from shipping or show signs of mishandling, notify the carrier immediately, not CHAUVET®. Failure to report damage to the carrier immediately may invalidate your claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with CHAUVET® within 7 days of delivery.

Manual Conventions

Convention	Meaning
1~512	A range of values in the text
50/60	A set of mutually exclusive values in the text
<SET>	A button on the product's control panel
Settings	A product function or a menu option
MENU>Settings	A sequence of menu options
1~10	A range of menu values from which to choose in a menu
Yes/No	A set of two mutually exclusive menu options in a menu
ON	A unique value to be entered or selected in a menu

Symbols

Symbols	Meaning
	Critical installation, configuration, or operation information. Failure to comply with this information may cause the product not to work, damage third-party equipment, or cause harm to the operator.
	Important installation or configuration information. Failure to comply with this information may keep the product from working.
	Useful information.

The term "DMX" used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.

Product at a Glance

Use on Dimmer	⊘	Auto Programs	✓
Outdoor Use	⊘	Auto-Ranging Power Supply	⊘
Sound Activated	✓	Replaceable Fuse	✓
DMX	✓	User Serviceable	⊘
Master/Slave	✓	Duty Cycle	⊘

Safety Notes

Please read the following Safety Notes carefully before starting to work with the product. These notes provide important safety information about the installation, usage, and maintenance.

DO NOT change lamp while product is plugged into power! Serious personal injury can occur. See Lamp Replacement in the Setup section for the proper procedure to change the lamp.

This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained CHAUVET® certified technicians. Do not open the housing or attempt any repairs.

Please refer to all applicable local codes and regulations for the proper installation of the product.

Personal Safety

- Avoid direct eye exposure to the light source while the product is on.
- Always disconnect this product from its power source before servicing.
- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- Do not touch this product's housing during operation because it may be very hot.

Mounting and Rigging

- This product is for indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture.
- Make sure there are no flammable materials close to this product while it is operating.
- When hanging this product, always secure to a fastening device using a safety cable.

Power and Wiring

- Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- Never connect this product to a dimmer pack or rheostat.
- Never disconnect this product by pulling or tugging on the power cable.

Operation

- Do not operate this product if you see damage on the housing, lenses, or cables. Have the damaged parts replaced by an authorized technician at once.
- Do not cover the ventilation slots when operating to avoid internal overheating.
- The maximum ambient temperature is 104° F (40° C). Do not operate this product at a higher temperature.
- In case of a serious operating problem, stop using this product immediately!
- **CAUTION**: Flashing light is known to trigger epileptic seizures. User must comply with local laws regarding notification of strobe use.

In the unlikely event that your CHAUVET® product may require service, contact CHAUVET® Technical Support.

2. Introduction

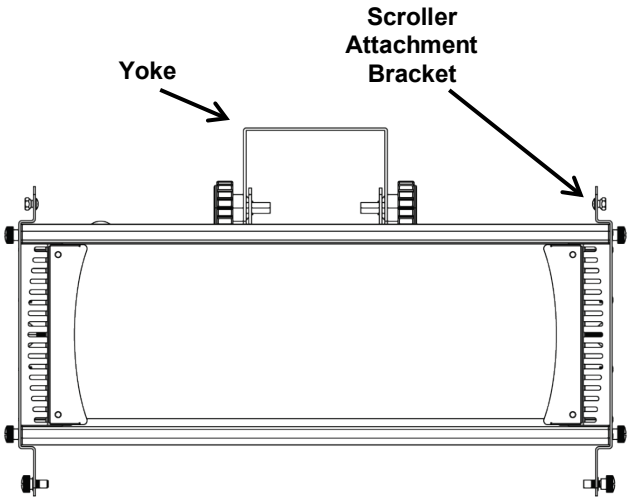
Product Description

The Xeno™ 2500 is an ultra-high frequency strobe luminaire powered by a 2,500-watt Xenon lamp. When multiple products are linked, built-in automated programs trigger several pre-programmed shows via master/slave. The product is controlled by sound-activation or DMX through 3- and 5-pin connectors.

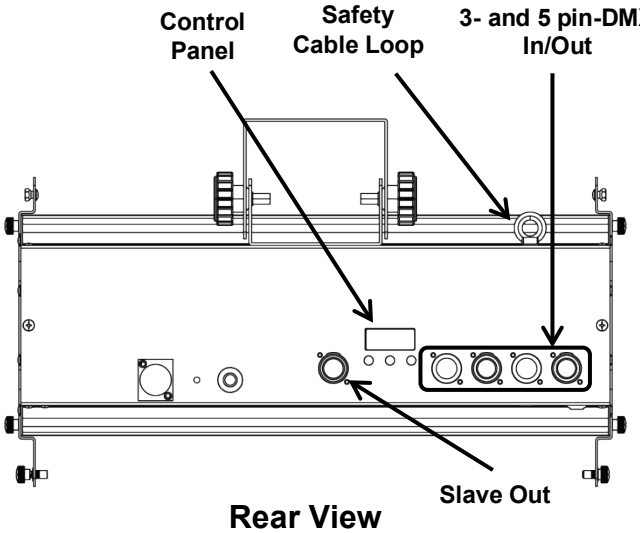
Features

- 3- or 4-channel Xenon strobe product
- Quiet operation with no fan
- DMX or sound-active operation
- Stunning automated programs with built in offsets
- Master/slave mode for easy programming of effects
- 2,500 W Xenon long-life lamp (5,600 K) included

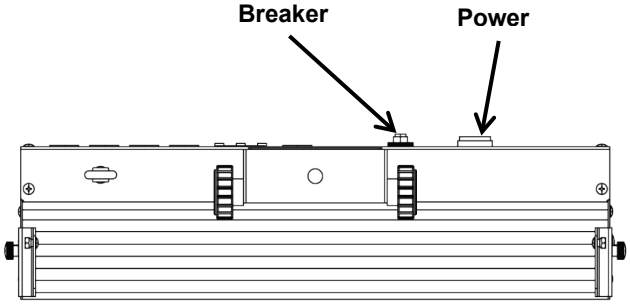
Overview



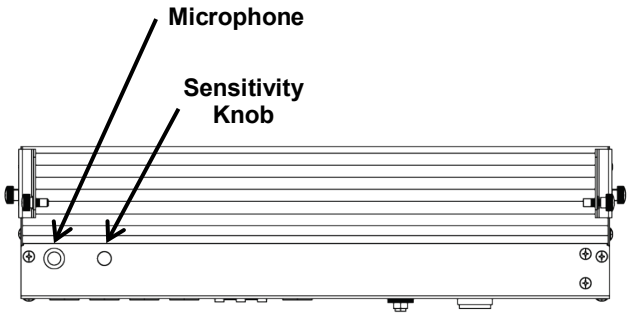
Front View



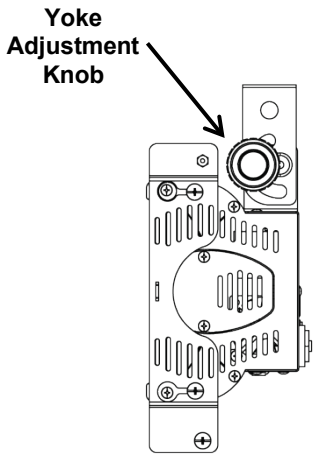
Rear View



Top View

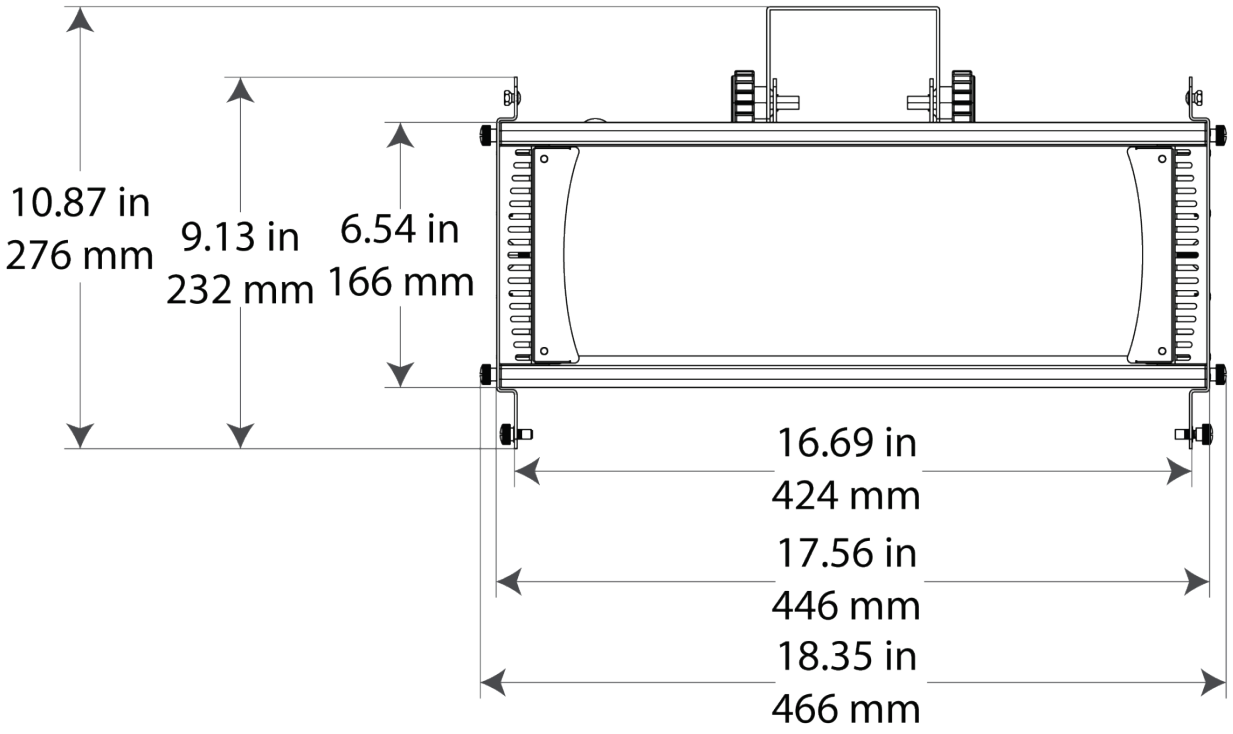


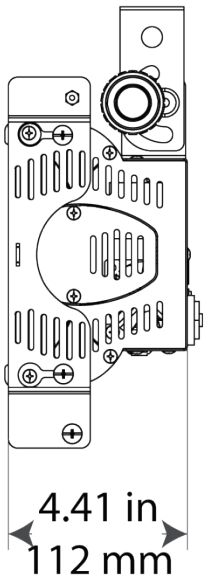
Bottom View



Side View

Dimensions


10.87 in
276 mm
9.13 in
232 mm
6.54 in
166 mm
16.69 in
424 mm
17.56 in
446 mm
18.35 in
466 mm


4.41 in
112 mm

3. Setup

AC Power

Each Xeno™ 2500 has an auto-ranging power supply that works with an input voltage range of 208~230 VAC, 50/60 Hz. To determine the power requirements for each Xeno™ 2500, refer to the label affixed to the product. You can also refer to the Technical Specifications chart in this manual.

The listed current rating indicates the maximum current draw during normal operation. For more information, download Sizing Circuit Breakers from the CHAUVET® website: www.chauvetpro.com.

Always connect this product to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.

Never connect this product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

AC Plug

The Xeno™ 2500 comes with a power input cord terminated on one end with a Neutrik® powerCON® A connector that connects to the product. The other is bare-ended. Use the table below to wire the new plug.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Resetting the Breaker

This product is equipped with a resettable 20A circuit breaker on the power input circuit. If the breaker trips, all sections of this product will lose power. Refer to the following instructions for resetting the breaker.

1. Remove the power cord from mains power.
2. Allow product to cool for 15 minutes.
3. After 15 minutes, you may attempt to reset the breaker by pressing the button with your index finger.
4. Plug the product's power cord into the power outlet and continue using as recommended.

Disconnect this product from the power outlet before resetting the breaker.

If the breaker does not reset (the breaker button will not remain inserted), contact CHAUVET® immediately. This indicates a possible internal malfunction.

DMX Linking

You can link the Xeno™ 2500 to a DMX controller using a standard DMX serial connection. If using other DMX compatible products with the Xeno™ 2500, you can control each individually with a single DMX controller.

DMX Modes

The Xeno™ 2500 uses the standard DMX data connection for the 3- and 4-channel DMX modes.

- Refer to Introduction for a brief description of these modes.
- Refer to Operation to learn how to configure the Xeno™ 2500 to work in these modes.
- The DMX Values section provides detailed information about DMX modes.

Master/Slave Connectivity

The Master/Slave mode allows a Xeno™ 2500 (the "master product") to control one or more Xeno™ 2500s (the "slave products") without a DMX controller. One Xeno™ 2500 becomes the master product when running a Standalone Flash program, or by being in Sound-Active mode.

You must configure each slave product's control panel to operate in SLAVE mode. During Master/Slave operation, the slave products will operate in unison with the master product.

The Operation chapter of this manual provides detailed instructions on how to configure the Master and Slave products.

If you are not familiar with or need more information about DMX standards, Master/Slave connectivity, or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the CHAUVET® website: www.chauvetpro.com.

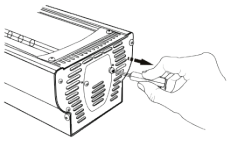
Lamp Replacement

The Xeno™ 2500 is equipped with a 2,500-watt Xenon lamp. Replacement lamps may be ordered from CHAUVET®. Follow the procedure below to safely change the Xeno™ 2500 lamp.

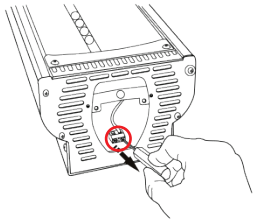
Disconnect the product from the AC power before opening. DO NOT change lamp while product is plugged into power! Serious personal injury can occur.

Procedure

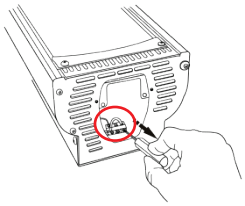
1. Turn the product off and disconnect it from power. Wait at least 15 minutes for the lamp to cool down.



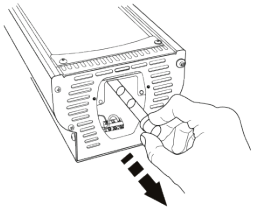
2. Remove both side covers by removing 4 Phillips-head screws.



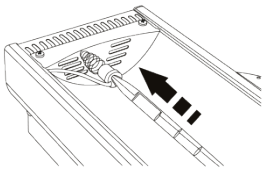
3. Side A has a single wire from the lamp connected to a terminal block. Unscrew this wire from the terminal block and note where it was connected. You will need to install the new lamp in the same terminal.



4. Side B contains 2 wires (1- white and 1 clear) that are connected to a terminal block. Unscrew these wires and carefully note where each was connected. **CAUTION:** Do not misalign or reverse the connections when installing the new lamp!



5. Using the ceramic ends of the lamp, carefully remove it from the socket springs.



6. Holding ONLY the ceramic ends of the lamp and using EXTREME CAUTION not to touch the glass portion of the lamp, gently slide the lamp into the socket spring located on Side B.
7. Reverse the steps 2 through 4 above to install the new lamp.

Increasing the Lamp's Life

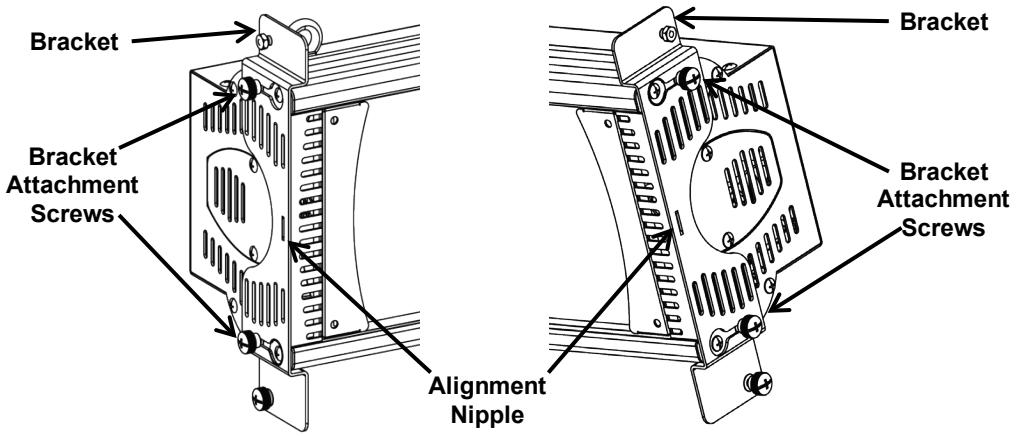
- **DO NOT touch the lamp without wearing gloves to avoid leaving grease on the bulb or on the contacts that could reduce the lamp's life.**
- **ALWAYS change the lamp when it has reached its recommended lifespan to avoid the risk of lamp explosion.**

Scroller Mounting Bracket

The Xeno™ 2500 is includes an adaptor bracket to mount a scroller. Follow the procedure below to mount the scroller brackets.

Procedure

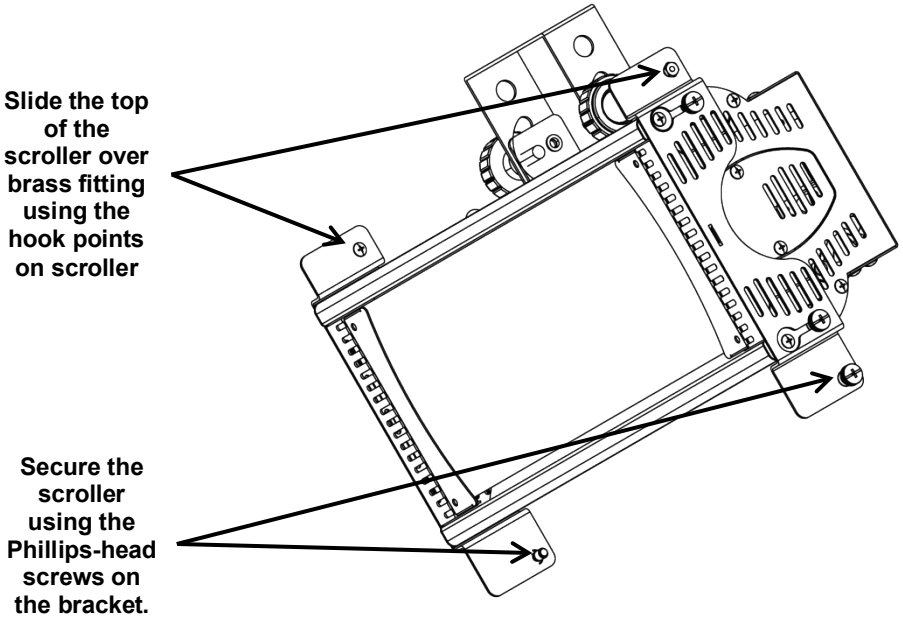
1. Turn the product off and disconnect it from power. Wait at least 15 minutes for the lamp to cool down.



Left Side View **Right Side View**

2. Using the diagrams above, place each bracket on the product using the alignment nipple and the bracket screws. Insure that each bracket is installed on the proper side.
3. Tighten each of the 4 Phillips-head bracket attachment screws.

Scroller Attachment


Slide the top of the scroller over brass fitting using the hook points on scroller
Secure the scroller using the Phillips-head screws on the bracket.

Mounting

Before mounting this product, read and follow the Safety Notes in this manual.

Orientation

Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration, and maintenance.

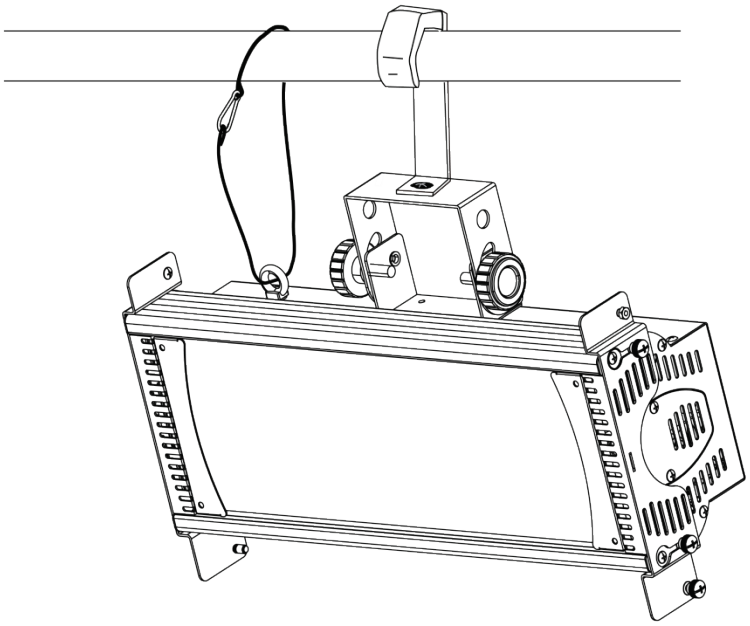
Rigging

CHAUVET® recommends using the following general guidelines when mounting this product.

- When selecting an installation location, consider easy access to this product for operation, programming adjustments, and routine maintenance.
- Make sure to mount this product away from any flammable material as indicated in the Safety Notes.
- Never mount in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect the product.
- If hanging this product, make sure that the mounting location can support the product's weight. Refer to the Technical Specifications chart for the weight-bearing requirements of this product.
- When hanging this product, always secure to a fastening device using a safety cable.

The Xeno™ 2500 comes with an already installed mounting bracket to which you will be able to attach clamps for hanging. You must supply your own clamps and insure they are capable of supporting the weight of this product. In addition, you will have to use a safety cable to link the product to the structure.

Product Mounting Diagram



Overhead Mounting

4. Operation

Control Panel Description

Button	Function
<MENU>	Sets the currently selected value into the selected function or exits from the current menu or function. Press and hold for 3 seconds to turn display backlight off
<UP>	Navigates upward through the menu list and increases the numeric value when in a function
<DOWN>	Navigates downward through the menu list and decreases the numeric value when in a function

Control Options

You can set the Xeno™ 2500 start address in the 001~512 DMX range. This allows for the control of up to 128 products in the 4-channel mode. The Xeno™ 2500 works with any compatible DMX controller using standard DMX cables.

Programming

Carry out all the programming procedures indicated below from the control panel. Refer to the Menu Map to learn how the menu options relate to each other.

DMX Address

1. Go to **A.**(**001~512**) in the main level.
2. To change the current address, press **<UP>** or **<DOWN>** (pressing **<UP>** and **<DOWN>** keys at the same time will return the setting to **001**).

DMX Mode

1. Go to **d.**(**3~4**)**CH** in the main level.
2. To change the current mode, press **<UP>** or **<DOWN>**.

Standalone Flash Mode

This mode allows you to set the flash speed in the control panel without need of a separate controller.

1. Go to **FL.**(**00~99**) in the main level.
2. Select the Flash Speed (**00~99**).

Sound–Active Flash Mode

This mode allows you to set the product to activate using the microphone located on the bottom of the product. The intensity control knob can be used to adjust the sensitivity of the microphone. **Aud.0** is used for a single product while **Aud.1~9** may be used for multiple products connected via the SLAVE OUT connection.

1. Go to **Aud.**(**0~9**) in the main level.
2. Select the sound-active mode (**0~9**).

Master/Slave Mode

This mode allows you to set the MASTER product to control other products daisy chained together. There are 3 ways to configure Master/Slave mode.

Standalone Flash Master/Slave Mode

1. Go to **FL. (00~99)** in the main level on the first MASTER product.
2. Select the desired Flash Speed (**00~99**).
3. Go to **A.**(**001~512**) in the main level and set the DMX address to **A.001**.
4. Connect the SLAVE products using the SLAVE OUT connection on the back of the MASTER product.
5. Connect the rest of the SLAVE products using the DMX IN/OUT connections.
6. Go to **A.**(**001~512**) in the main level of each of the SLAVE products and set the DMX address to **A.002, A.003, A.004 …** as it pertains to each product in the chain.

Sound-Active Flash Master/Slave Mode

1. Go to **Aud.**(**0~9**) in the main level on the first MASTER product.
2. Select the desired sound-active mode (**0~9**).
3. Go to **A.**(**001~512**) in the main level and set the DMX address to **A.001**.
4. Connect the SLAVE products using the SLAVE OUT connection on the back of the MASTER product.
5. Connect the rest of the SLAVE products using the DMX IN/OUT connections.
6. Go to **A.**(**001~512**) in the main level of each of the SLAVE products and set the DMX address to **A.002, A.003, A.004…**as it pertains to each product in the chain.

DMX Control Master/Slave Mode

1. Go to **A.**(**001~512**) in the main level of the first MASTER product and set the desired DMX starting address.
2. Connect the SLAVE products using the SLAVE OUT connection on the back of the MASTER product.
3. Connect the rest of the SLAVE products using the DMX IN/OUT connections.
4. Go to **A.**(**001~512**) in the main level of each of the SLAVE products and set the DMX address to **A.002, A.003, A.004…**as it pertains to each product in the chain.

If more than 4 products are daisy chained together, the first product is the Master, and the Slave products are set in order as 2, 3, 4, 1, 2, 3, 4 … The last 4 products run the same patterns of the first 4 products, and so on.

Menu Map

Main Level	Programming Levels	Description
A.	**001~512**	Selects a starting DMX address
d.	**3CH**	Selects DMX channel mode
	4CH	
FL.	**00~99**	Selects Standalone mode and the strobe speed
Aud.	**0~9**	Selects Sound-Active mode

DMX Values

3 CH

Channel	Function	Value	Percent/Setting
1	**Mode Selection**	000 ⇔ 009 010 ⇔ 099 100 ⇔ 199 200 ⇔ 249 250 ⇔ 255	Sound-Active mode Single flash mode Quad flash mode Blinder effect Blinder effect with fade out
2	**Sound-Active**	000 ⇔ 005 006 ⇔ 030 031 ⇔ 055 056 ⇔ 080 081 ⇔ 105 106 ⇔ 130 131 ⇔ 155 156 ⇔ 180 181 ⇔ 205 206 ⇔ 230 231 ⇔ 255	Show 0 (user defined) Show 1 Show 2 Show 3 Show 4 Show 5 Show 6 Show 7 Show 8 Show 9 Random show mix 1~9
	Single Flash Mode	000 ⇔ 005 006 ⇔ 249 250 ⇔ 255	Blackout 0.5~25 fps Single trigger
	Quad Flash Mode	000 ⇔ 005 006 ⇔ 249 250 ⇔ 255	Blackout 0.5~25 fps Single trigger
	Blinder Effect	000 ⇔ 005 006 ⇔ 249 250 ⇔ 255	Blackout 0.25~1 fps Single trigger
	Blinder Effect with Fade Out	000 ⇔ 005 006 ⇔ 249 250 ⇔ 255	Blackout 0.15~0.7 fps Single trigger
3	**Dimmer**	000 ⇔ 005 006 ⇔ 255	No Function 0~100%

DMX Values (cont.)

4 CH

Channel	Function	Value	Percent/Setting
1	**Mode Selection**	000 ⇔ 009	Sound-Active mode
		010 ⇔ 099	Single flash mode
		100 ⇔ 199	Quad flash mode
		200 ⇔ 249	Blinder effect
		250 ⇔ 255	Blinder effect with fade out
2	**Sound-Active**	000 ⇔ 005	Show 0 (user defined)
		006 ⇔ 030	Show 1
		031 ⇔ 055	Show 2
		056 ⇔ 080	Show 3
		081 ⇔ 105	Show 4
		106 ⇔ 130	Show 5
		131 ⇔ 155	Show 6
		156 ⇔ 180	Show 7
		181 ⇔ 205	Show 8
		206 ⇔ 230	Show 9
		231 ⇔ 255	Random show mix 1~9
	Single Flash Mode	000 ⇔ 005	Blackout
		006 ⇔ 249	0.5~25 fps
		250 ⇔ 255	Single trigger
	Quad Flash Mode	000 ⇔ 005	Blackout
		006 ⇔ 249	0.5~25 fps
		250 ⇔ 255	Single trigger
	Blinder Effect	000 ⇔ 005	Blackout
		006 ⇔ 249	0.25~1 fps
		250 ⇔ 255	Single trigger
	Blinder Effect with Fade Out	000 ⇔ 005	Blackout
		006 ⇔ 249	0.15~0.7 fps
		250 ⇔ 255	Single trigger
3	**Dimmer**	000 ⇔ 005	No Function
		006 ⇔ 255	0~100%
4	**Slave Mode**	000 ⇔ 005	No Function
		006 ⇔ 039	Unit 1
		040 ⇔ 074	Unit 2
		075 ⇔ 109	Unit 3
		110 ⇔ 144	Unit 4
		145 ⇔ 179	Unit 1 + 2
		180 ⇔ 214	Unit 3 + 4
		215 ⇔ 249	Unit 1 + 3
		250 ⇔ 255	Unit 2 + 4

5. Technical Information

Product Maintenance

To maintain optimum performance and minimize wear, you should clean this product frequently. Usage and environment are contributing factors in determining the cleaning frequency.

As a rule, clean this product at least twice a month. Dust build-up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

To clean your product:

- Unplug the product from power.
- Wait until the product has cooled.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents and accessible internal components.
- Clean all external optics and glass/plastic surfaces with a mild solution of non-ammonia glass cleaner or isopropyl alcohol.
- Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
- Wipe any dirt or grime to the outside edges of the lens, glass, or plastic surface.
- Gently polish the lenses until they are free of haze and lint.

Always dry the external optics, glass, and plastic surfaces thoroughly after cleaning them.

Refrain from spinning this product's fans using compressed air.

Returns

The user must send the merchandise prepaid, in the original box, and with its original packing and accessories. CHAUVET® will not issue call tags.

Call CHAUVET® and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause(s) for the return.

The user must clearly label the package with an RMA number. CHAUVET® will refuse any product returned without an RMA number.

DO NOT write the RMA number directly on the box. Instead, write it on a properly affixed label.

Once you have received the RMA number please include the following information on a piece of paper inside the box:

- Your name
- Your address
- Your phone number
- The RMA number
- A brief description of the problem(s)

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. FedEx packing or double-boxing are recommended.

CHAUVET® reserves the right to use its own discretion to repair or replace returned product(s).

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
18.35 in (466 mm)	4.41 in (112 mm)	10.87 in (276 mm)	8.4 lbs (3.81 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Electrical

Power Supply Type	Range	Voltage Selection
Switching (internal)	208~230 V, 50/60 Hz	Auto-ranging

Parameter	230 V, 50 Hz
Consumption	N/a
Operating	15 A
Breaker	20 A, 125/250 V

Power I/O	U.S./Worldwide	Europe
Power input connector	Neutrik® powerCON® A	Neutrik® powerCON® A
Power output connector	N/A	N/A
Power cord plug	Open Wire	Open Wire

Light Source

Type	Power	Lifespan
Xenon Lamp	2,500 W	500 hours

Thermal

Max. External Temperature	Cooling System
104° F (40° C)	Fan-Assisted Convection

DMX

I/O Connectors	Connector Type	Channel Range
3- and 5-pin XLR	Sockets	3, 4

Ordering

Product Name	Item Code	UPC Number
Xeno™ 2500	16050622	781462209704
Xeno™ 2500 Lamp Replacement	16110698	781462210465

Contact Us

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RoHS